Scout Report sent out	
Noted in the NID File	
Location map pinned	
Approval or Disapproval Letter	₽/
Date Completed, P. & A. or operations suspended	6-1-57
Pin changed on location map	
Affidevit and Record of A & P	
Water Saut-Off Test	
Gas-Ciil Ratio Test	т П,
Well Log Filed	The D

FILE NOTATIONS		
Entered in NID File		1
Entered On S R Sheet	Chlockfodd life) Chhaff	
Location Mep Pinned	BRYNNID to Pick! Offices	
Card Indexed	Approvail offer	One of Confession
WR for State or Fee Land	Disappaoval Letter	
COMPLETION TO A	**************************************	
	159 re-worked	
	108 Hausson Supported	
GW CE INC.	Money rediressed	
	Cause of Fee Land	
Billion 6/30/58	CO HIED	
Heer a Lory (No. 1)		
Alexander Manager		
W.L	E GR. GRN L	

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UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

Indian A	_{vency}	o				
Allottee				7	vv.	
Lease No.	14	-20	(603-	-26	53

10	GEOLOGICAL SURVEY	Lease No. 14-20-603-263
SUNDRY NOTIC	CES AND REPO	RTS ON WELLS
NOTICE OF INTENTION TO DRILL	X SURSEQUENT DE	PORT OF WATER SHUT-OFF
NOTICE OF INTENTION TO CHANGE PLANS		PORT OF SHOOTING OR ACIDIZING.
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.		PORT OF ALTERING CASING
NOTICE OF INTENTION TO REDRILL OR REPAIR WE	J	PORT OF REDRILLING OR REPAIR
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT RE	PORT OF ABANDONMENT
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY	WELL HISTORY
NOTICE OF INTENTION TO ABANDON WELL		
(INDICATE ABOVE BY C	HECK MARK NATURE OF REPORT, NO	OTICE, OR OTHER DATA)
	November	· 23, 1957
Navajo Tract 114 Well No. <u>16</u> is located 198		1980 ft. from [E] line of sec
	1S 25E	SLM
(14 Sec. and Sec. No.) (Twp IcElmo Creek San Ju		(Meridian) U ta h
(Field)	(County or Subdivision)	(State or Territory)
The elevation of the derrick floor above	ve sea level isft.	4547.4' ungraded ground.
	DETAILS OF WORK	
State names of and expected depths to objective san		s of proposed casings, indicate mudding jobs, sement-
ing poin	its, and all other important propos	s of proposed casings; indicate mudding jobs, cement- ed work)
		o approximately 5700' to test the
potentially productive Hermosa	and Paradox format	ions. Surface casing: Approximate
		o the surface. Oil String: 7" OD
		quired amount of cement. Mud:
		d. Drill stem tests: All oil & ga run before setting casing or
mons will be reared. noss: El	logs	Imi perore securif casing or
abandonment. Stimulation treat be employed in completion.		zing or hydraulic fracturing may
I understand that this plan of work must receive	approval in writing by the Geologi	cal Survey before operations may be commenced.
Company The Carter Oil Comp	any	
		· · · · · · · · · · · · · · · · · · ·
AddressBox 4444		PORW /ORIGINAL DE PER PRESERV
Physican Colomeda	_	COPY ("RIGINAL") B. M. BRADLEY
Durango, Colorado	Ву	B M Bradley
		D II DLSGTGA

Title District Superintendent

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			17)			
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cale—4 inch	es equal 1 r	nil e.				
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The Carter Cil Company P. C. Box 444 Durango, Colorado

Attention: B. M. Bradley, District Superintendent

Gentlemen:

This is to seknowledge receipt of your notices of intention to drill Well No. Navejo Tract 114-15, which is to be located 1980 feet from the north line and 660 feet from the east line of Section 17, Township 41 South, Range 25 East, SIEM, and Well No. Navejo Tract 114-16, which is to be located 1980 feet from the south line and 1980 feet from the east line of Section 17, Township 41 South, Range 25 East, SIEM, San Juan County, Utah

Please be advised that insofar as this office is concerned, approval to drill the above mentioned wells is hereby granted.

This approval terminates within 90 days if the above mentioned wells are not spudded in within said period.

Yours very truly,

OIL A GAS CONSERVATION COMMERCEN

CLEAR B. FEIGHT SECREPARY

CDF:on

ce: Phil McCreth UNGS, Fermington, New McZico

TR-UNGS

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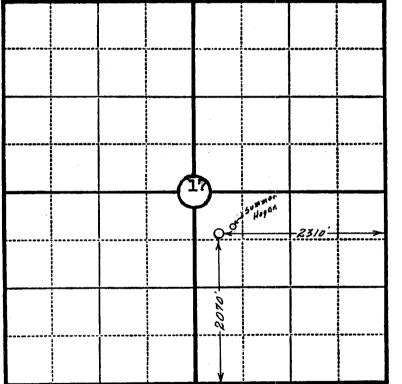
UNITED STATES DEPARTMENT OF THE INTERIOR

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Na v	പ്ര		
Allottee			~/·
Lease No	14-2	U - 6U;	-263

GEOLOGICAL SURVEY

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SUN	IDRY NOTICES				
NOTICE OF INTENTION T NOTICE OF INTENTION T NOTICE OF INTENTION T NOTICE OF INTENTION T	TO DRILL	SUBSEQUEN SUBSEQUEN SUBSEQUEN SUBSEQUEN SUBSEQUEN SUBSEQUEN	IT REPORT OF SI IT REPORT OF A IT REPORT OF A IT REPORT OF A	IATER SHUT-OFF HOOTING OR ACIDIZIN LITERING CASING REDRILLING OR REPAIL BANDONMENT TORY	G
	(INDICATE ABOVE BY CHECK MA	RK NATURE OF REPO	RT, NOTICE, OR	OTHER DATA)	
Navajo Ti	ract 111; is located2070_ft.			8, 1957	
			SLM		
NW SE Section		(Range)		ridian)	
McElmo Creek		Juan		Utah	
(Field)	•	nty or Subdivision)	7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(State or Terr	
		AILS OF WO)RK		
State names of and expe	cted depths to objective sands; sho ing points, and	w sizes, weights, and all other important	proposed work)	sed casings; indicate	inducting jobby
location is be	of Mr. P. T. McGrating moved from the oide space for adequation to	riginal 198 te pit s. A	O' from S 11 other	Line and 19 details of W	80 from
New plat attac	hed.				
	(Note: All of secti	on 17 is un	der lease	to The Cart	er Oil Co.)
× .					
	is plan of work must receive approv		Geological Surv	rey before operations	may be commenced
Company Th	e Carter Oil Company	<u></u>			
Company					
AddressBo	x 444	,	ra?	ORIGINAL) B.	BRADLEY
AddressBo	x 444 rango, Colorado		By	V (ORIGINAL) B. R. B. M. Bra	A. BRADLEY

	E CARTER			
Lease NAVA	JO TRACT	ll#	Wel	1 No/6
	т. 41 5 ,			
1161	70	NE		& 2310 FROM
SAN JUA	N COUNTY			UTAH
		-		



Scale-4 inches equal 1 mile.

Seal:

This is to certify that the above plat was prepared from field notes of actual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.

Pagistared Land Surveyor

Registered Land Surveyor.

James P. Leese
Utah Reg. No. 1472

Surveyed 17 December , 19 57

The Carter 011 Company P. O. Box 444 Durango, Colorado

Attention: B. M. Bradley, District Superintendent

Gentlemen:

This is to acknowledge receipt of your notice of intention to change well location and drill Well No. Navajo Tract 114-16, 2070 feet from the south line and 2310 feet from the east line of Section 17, Township 41 South, Range 25 East, SLBM, San Juan County, Utah.

Please be advised that insofar as this office is concerned, approval to drill said well in said location is hereby granted.

Yours very truly,

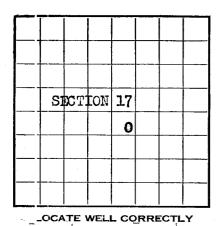
/ []

OIL & GAS CONSERVATION COMMISSION

CLEON B. FRIGHT SECRETARY

CBF:en

co: Phil McGrath
USGS, Farmington,
New Mexico



STATE OF UTAH OIL & GAS CONSERVATION COMMISSION

State Capitol Building Salt Lake City 14, Utah

7-1-9

To be kept Confidential until.

(Not to exceed 4 months after filing date)

LOG OF OIL OR GAS WELL

Operat	ting Com	pany The C	arter O	il Compa	any Address	P.O. Box 308	2, Dura	ngo, U	olorado
		Navajo T						Utah	
Well	Jo 16	Sec 17 7	r 41S R	25E Mer	idian SI	M Cou			
Locati	on 2070	$ft. \left \begin{array}{c} N \\ SX \end{array} \right \text{ of } S$	Line an	ad 2310 _{ft}	KK of E	Line of Section	n 17	Elev	ation 4557
T	he inform		erewith is	a comple	te and correct	t record of the wo			
SUTAL	പട പ്പോട	determined if	om an av		gned	D2 D	rad	lly	
Date -	June	23, 1958	1-4-1-2 Second to the			Title Dist	. BRADI rict Su	perint	end e nt
T	he summa		-			at above date.			
Coram	enced dril	lling Feb	ruary 9	غ في, 19	58 Finish	ed drilling	Ma	rch 11	, ₁₉ 58
		1 m	OII	L OR GA	S SANDS O	R ZONES	COMPLET	ED: 4	-2-58
				(L	renoie gas by G)				
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No. 2,	from	5396	- 00	433	No. 5,	from	t	0	
7. 3		5443	5	471					gradient Awards of the Control
No. 3,	from		_ to _}		No. 6,	from	to): <u>*</u>	
			_ 10 []	MPORTA	NT WATER	SANDS	ignit with	V2	
		525	_ to	MPORTA	NT WATER		ignit with	V2	
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No. 1,	from	525*	to11	MPORTA 000	No. 3,	sands from	to)	*
No. 1, No. 2,	from	525	to	MPORTA 000 CAS	No. 3, No. 4,	from from	to))	*
No. 1, No. 2,	from from Weight per foot	525 Threads per a inch	to11	MPORTA 000 CAS	NT WATER No. 3, No. 4,	sands from	to))	*
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No. 1, No. 2, Stie casing	from Weight per foot Sp 32.75#	Threads per inch	to	CAS Amount 199 1330	No. 3, No. 4, ING RECOR	from from	Perfo	rated To—	Purpose
No. 1, No. 2, Stie casing	from from Weight per foot	Threads per inch	to	CAS Amount 199 1330 355	No. 3, No. 4, ING RECOR	from from	Perfo From 5374	rated To—	Purpose Production
No. 1, No. 2, Stie easing	from Weight per foot Sp 32.75#	Threads per sinch	toto	CAS Amount 199 1330	No. 3, No. 4, ING RECOR	from from	Perfo From 5374 5396	rated To	Purpose Production
No. 1, No. 2, Stie easing	from Weight per foot Sp 32.75#	Threads per sinch	to	CAS Amount 199 1330 355	No. 3, No. 4, ING RECOR	from from	Perfo From 537/4 5396 51/4/3	rated 1 To 5390 51433 51471	Purpose Production
No. 1, No. 2, Stie easing	from Weight per foot Sp 32.75#	Threads per sinch	to	CAS Amount 199 1330 355	No. 3, No. 4, ING RECOR	from from	Perfo From 5374 5396	rated To	Purpose Production
No. 1, No. 2, Stie easing	from Weight per foot Sp 32.75#	Threads per sinch	to	CAS Amount 199 1330 355 5226	No. 3, No. 4, ING RECOR Kind of shoe None Baker (Howco)	from from	Perfo From 537/4 5396 51/4/3	rated 1 To 5390 51433 51471	Purpose Production
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Heaving plu	g—Material	· ·	ND ADAPTER		th set
Adapters-N	Aaterial	Siz	e	. 	
		SHOOTI	NG RECORD		
Size	Shell used Ex	plosive used Qua	ntity Date	Depth shot	Depth cleaned out
ı		1			
Rotary tools	were used from	TOO	LS USED 5543 feet,	, and from	feet to feet
Cable tools v	vere used from $$	lone feet to	feet,	, and from	feet tofeet
Tes	ma 22		ATES		M 1' 1'
	ne 22,		_	-	May 1, 1958
					100_% was oil;% 38.6° API
		cho	ke.		
•	-		Re+	oline per 1,000 c GOR 550 :1	u. ft. of gas
Rock p	ressure, lbs. per sq.				•
			LOYEES		, Driller
		,			, Driller
COMILETED			ION RECORD		, Dimoi
1'BOM-	то—	TOTAL FEET		FORMAT	ION
		ELECTRIC LOG I	OPS		N.
0	525	525	SAN RAFEL and red sh		rbedded red sandstones
525	1200	675	GLEN CANYO	N GROUP: Red	d sandstones.
:1200	2358	1158		ery calcareou	andstones and silty shales as near the base with
2358	4344	1986			red shale with thin streate in lower portion.
l ւ3ևև	5194	850	shales, an	d dense lime:	terbedded gray & brown stone. Lower 1/3 dense ocally cherty.
5194	5338	144		mestone, gray ssiliferous.	, dense, locally cherty
!5 33 8	5497	159		Limestone & o	dolomite interbedded with lack shale.
5497	5543	46	"C-1": In anhydrite.		ack shales, dolomite and
			100		

[OVER]

At the end of complete Driller's Log, add Geologic Tops. State whether from Electric Logs or samples.

W

HISTORY OF OIL OR GAS WELL

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of redrilling, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was "sidetracked" or left in the well, give its size and location. If the well has been dynamited, give date, size, position, and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.

Spudded well 2-9-58. Drilled and reamed 20" hole to 203!. Set 199! of 16" Spiral Weld tasing @ 201! w/ 220 sx cement. Drilled and reamed 15" hole to 1347!. Set 1330! of 10-3/4" 32.75#, H-40 casing @ 1346! w/ 1025 sx cement. Drilled 8-3/4" hole to TD of 5543!. Set 5581! of $5\frac{1}{2}$ " OD, 15.5# & 14# J-55 casing @ 5541! w/ 350 sx cement.

CUT 5 CORES - See attached descriptions.

COMPLETION: PBTD 5509. Perforated 5496-5485. & 5471-5443. w/4 holes per ft. Spotted 300 gal MCA across perforations, let set 30 min and reversed out. Spotted reg 1% acid on perforations, set packer @ 5430. and acidized w/ 5600 gal. Max press 4000, min press 3800, average injection rate 2.5 bbl/min, flushed w/ 33 bbls crude. Shut in press 3800, on tubing. Flowed to clean up for 14 hrs and well died. Swabbed on 3 ir test @ rate of 216 BO/day. Pulled tubing and packer.

Set bridge plug @ 5436'. Perforated 5433-5396' & 5390-5374' w/4 holes per ft. Spotted 500 gal MCA across perforations, pressured up to 700# and held for 30 min, reversed out. Spotted regular 15% acid on perforations, set packer @ 5356'. Treated w/920 gal regular 15% acid & 600 gal Fix-a-Frac in 3 stages as follows: 3000 gal acid in formation @ 3.9 bbl/min, max press 3400#, min press 2600#, followed by 10 bbls crude, then 300 gal Fix-A-Frac & 10 bbls crude, followed by 3200 gal acid. Slowed pump while fix-a-frac hit formation @ 3000#, no apparent increase until pump speeded up, then increased from 3400# to 4000#, press broke back to 3400#. Injection rate 4.7 bbls/min, max press 4000#, min press 3300#, followed by 10 bbls crude, then 300 gal fix-a-frac and then 10 bbls crude * 3000 gal acid, flushed w/ 33 bbls crude, max press 3700#, min press 3400#, average injection rate 17 bbls/min @ 3500#. Standing pressure in 5 min 3200#. Swabbed and flowed to clean up then flow tested for 3 hrs on 1/2" choke @ rate of 384 bbls/day. Pulled tubing and packer.

Ran tubing and flow tested from all perforations on 1/2" choke for completion. Flowed at rate of 350 BO and no water per day from perforations 5374-5390; 5396-5433; 5443-5471 & 5485-5496 in Paradox formation.

CORE NO. 1 - 2 - 3 - 4 & 5	POOL OR UNIT
529() to 5493	Heve jo Tract 114 116
199 (4 not rec.)	IN SE Sec 17-L1S-25E
FORMATION	COUNTY
DATE	STATE

- CORE NO. 1: 5290' to 5328'. Cut 38', rec. 38'. 5' of siltstone, dark brown and 33' of limestone, brown & tan, skeletal & matrix.
- CORE NO. 2: 1328' to 5381'. Cut 53', rec. 53'. 6' limestone, matrix & skeletal, no visible perceity, no show. 29' shale, black. 2' limestone matrix, no show, no perceity. 16' delemite, 10' with spotty pin point perceity & show and 3' with spotty flourescence but no visible perceity, 3' no perceity, no show.
- GCRE NO. 3: 5381' to 5431'. Cut 50', rec. 50'. 6' delemite with very fine pin point perceity and yellow uniform flourescence. 1' limestone with yellow flourescence but no visible perceity. 7' delemite with fine pin point perceity and uniform flourescence. h' limestone, 2' with pinpoint perceity. 14' delemite with 11' of perceity, spetty to uniform flourescence. 1' limestone, no show, no perceity. 15' delemite with very fine pin point perceity, (inclusion of anhydrite) uniform yellow flourescence. 1' limestone, light, no show. 1' delemite with shale inclusion, pinpoint perceity and flourescence. Total perceity of care 42'.
- CORE NO. h: 5h31' to 5h83'. Cut 52', rec. 52'. 52' of interbedded dolomite & limestone, matrix & skeletal with a total of 8' visible porosity. 30' delemite matrix & skeletal & 22' limestone matrix & skeletal.
- CORE NO. 5: 5183' to 5193'. Cut 10', rec. 6'. h' dolomite, matrix, 1' with visible porosity. 2' limestone, matrix, no visible porosity or show. (h' not recovered, probably shale.)

CORE HEAD TYPE & SIZE		
DESCRIBED BY	 	

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

Indian Agency	
Allottee	
Lease No. 14-20-603-26	3

71-4-20

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING OR REPAIR
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT.
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY.
NOTICE OF INTENTION TO ABANDON WELL	Casing Report

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

			April 10,	, 19 <u>.</u> 99
Well No. 16	114 is located 2070 ft. fro	om $\left\{S\right\}$ line and	2300 ft. from	E line of sec.
IN 35 Section 17	L1 5	25E	SIM	
(¼ Sec. and Sec. No.)	(Twp.)	(Range)	(Meridian)	
McClao Creek	Sen	Juan		Uteh
(Field)	(County	or Subdivision)	(Sta	ate or Territory)

The elevation of the derrick floor above sea level is 1557 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Set 16" casing @ 201', demented with 220 sauks dement.

Set 10-3/k" casing @ 13k6', demented with 1025 sacks dement.

Set 5-1/2" casing @ 55k1', demented with 350 sacks dement.

The Carter Oil Company

Address Box 3082

By COPY (ORIGINAL) B. M. BRADLEY

Title Dist. Suct.



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UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

Indian A	gency Navaj	5
	- ·	
Allottee		
	** ** ***	-

Lease No.

M. H

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	- 1	SUBSEQUENT REPORT OF WATER SHUT-OFF
		•
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING.
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL.		SUBSEQUENT REPORT OF REDRILLING OR REPAIR
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT.
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY.
NOTICE OF INTENTION TO ABANDON WELL		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Well No is locatedft. from \begin{array}{ c c c c c c c c c c c c c c c c c c c	
NW SE Section 17 LIS 25E SIN	
(¼ Sec, and Sec, No.) (Twp.) (Range) (Meridian)	
McElmo Creek San Juan Utah	
(Field) (County or Subdivision) (State or Territory)	

The elevation of the derrick floor above sea level is 4557 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Perforated Shi3-71' and Sh85-96' with four shots per foot. Spotted 300 gal. MCA Across perforations, acidized with 5600 gallons reg. 15% acid. Flowed li hours for 91 b.o., well died. Set bridge plug @ Sh36', perforated 537h-90' and 5396-5h33' with h shots/ft. Acidized with 500 gal. MCA and 9200 gal. regular 15% acid and 600 gal. Fix-a-frac. Tested 3 hours on 1/2" choke, flowed at rate of 36h b.o.p.d. Killed well, drilled out plug @ Sh36' and drove to 5506'. Completed as oil well on 1/2" choke, flowing @ rate of 350 b.o.p.d. Completion date h-2-58.

	d that this plan of work must receive approval in writing b	y the Geological Survey before operations may be commenced.
	Box 3082	
Address	Durango, Colorado	By COPY (ORIGINAL) B. M. BRADLEY
		Title Dist. Supt.

UNITED STATES DEPARTMENT OF THE INTERIOR **GEOLOGICAL SURVEY**

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Allottee	
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SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING DITICE OF INTENTION TO TEST WATER SHUT-OFF. DITICE OF INTENTION TO REDRILL OR REPAIR WELL DITICE OF INTENTION TO SHOOT OR ACIDIZE DITICE OF INTENTION TO PULL OR ALTER CASING. DITICE OF INTENTION TO ABANDON WELL DITICE OF INTENTION TO ABANDON WELL DITICE OF INTENTION TO ABANDON WELL (INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA) (INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)	OTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF
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(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA) August 7. , 19 2 May 10 Track 111 Il No. 16 is located 2070 ft. from S line and 2110 ft. from E line of sec. 17 IS Section 17	OTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT.
(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA) August 7	OTICE OF INTENTION TO PULL OR ALTER CASIN	
August 7	OTICE OF INTENTION TO ABANDON WELL	RECORDITION WELL IN PRESENT ZONE X
Have to Tract 11h Il No. 15 is located 2070 ft. from S line and 2100 ft. from E line of sec. 17 SB Section 17 (K Sec. and Sec. No.) (Exp.) (Range) (County or Subdivision) (State or Territory) de elevation of the derrick floor above sea level is 2557. ft. DETAILS OF WORK te names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings indicate mudding jobs, ceree ing points, and all other important proposed work) This wall originally completed April 2: 1556, flowing 50 becaped. through 5070-5033 ship-71 and 505-66. The initial could be represented of 1h,000 gal. reg. acid and 600 gal. Mis. Reconstitutioning of 11 started 7-1-59, acidised the above perforations with 10,000 gal. Bowell acid, man, process. 2005, man, process. 2005, in increases after dropping balls. Ran 5700 gal. Speed 70 myless balls, process. 2006, when replace balls like performance of the process. 2006, when replace balls like performance of 250 like and 132 bbls. cil. Testing, Well wereover completed on 7-2 apring and flowing through 3/h choice at rate of 262 bbls. cil. and no water. The Carter Oil Company through 3/h choice at rate of 262 bbls. dil and no water.	(INDICATE ABOVE BY	CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)
Il No. 16 is located 2076 ft. from S line and 210 ft. from E line of sec. 17 SE Section 17 (Range) (Meridian) (Range) (Meri		August 7. , 19.99
(24 Sec. and Sec. No.) (Election Creek Sen Juan (Country or Subdivision) (State or Territory) e elevation of the derrick floor above sea level is DETAILS OF WORK te names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, ceme ing points, and all other important proposed work) This well originally completed April 2 1958, flowing 50 beaped, through forestions 5372-90, 5396-5133, Shill-71, and 5185-96. The initial cold break consisted of 11,000 gal. reg. acid and 600 gal. Min. Reconditioning of 11 started 7-1-59, acidised the above perforations with 30,000 gal. Donell acid, any, press. 3000, ain. Press. 2200, ail. rets 21.8 bbls. per min to 120 gal. acid, proposed len balls, press. 3000, ain. Press. 2200, ail. rets 21.8 bbls. per min to 120 gal. acid, proposed		ft. from $\frac{E}{ S }$ line and $\frac{E}{ S }$ line of sec. 17
e elevation of the derrick floor above sea level is		internal and the second
DETAILS OF WORK to names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, ceme ing points, and all other important proposed work) This well originally completed April 2, 1958, flowing 350 b.e.p.d. through the consisted of lip, 300 gale reg. acid and 300 gale. Mid. Reconditioning of the consisted of lip, 300 gale reg. acid and 300 gale. Mid. Reconditioning of the started 7-1-59, acidized the above perforations with 30,000 gale. Reconditioning of acid, ann. press. 3000, min. press. 2200, inj. rate 21.8 bbls. per min. 120 gal. Fagent plus 150 gal. Wagent. Ran 18,100 gal. acid, dropped lem balls, press. 3000, no increase after dropping balls. Ran 5700 gal. acid, dropped 1 lem balls, press. 2300, when myler balls hit perf., press. rais 100, Flushed with 132 bbls. cil. Testing. Well werkover completed on 7-2 aping and flowing through 3/h choke at rate of 262 bbls. cil. and no water understand that this plan of work must receive approval in writing by the Geological Survey before operations many byto press. how 3082	dilao Crook	Sen Juan Phah
DETAILS OF WORK te names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, ceme ing points, and all other important proposed work) This well originally completed april 2, 1955, flowing 350 b.o.p.d. through the same states of 10,000 gal. reg. acid and 500 gal. Mis. Reconditioning of 11 started 7-1-59, acidized the above perforations with 3,000 gal. Rowell acid, man, press. 3000, min. press. 2000, fig. rete 21.8 bbls. per nime 120 gal. Fagunt plus 150 gal. Wagant. Ran 16,100 gal. acid, dropped lan balls, press. 3000, no increase after dropping balls. Ran 5700 gal. acid, dropped 10 mercans after dropping balls. Ran 5700 gal. acid. Supped 70 myles balls, press. 2000, when myles balls last peri. press. reis 2000, Flushed with 132 bbls. cil. Perting. Well workover completed on 7-2 sping and flowing through 3/h choise at rate of 362 bbls. cil. and no water understand that this plan of work must receive approval in writing by the Geological Survey before operations may be company the Carter Oil Company dress. Box 3052	(Field)	(County or Subdivision) (State or Territory)
understand that this plan of work must receive approval in writing by the Geological Survey before operations may be confinenced. mpany the Carter 011 Capany dress ORIGINAL R. M. BRADLEY	ing po	oints, and all other important proposed work) Explored April 2, 1958, flowing 350 b.o.p.d. throug
dress FOR (ORIGINAL) R. M. BRADLEY	This well originally on riorations 5374-90', 5396-int consisted of 14,000 gal 11 started 7-1-59, acidise acid, max. press. 3000, us 120 gal. Fagent plus 1 lan balls, press. 3000, n opped 70 nylan balls, press. 300/. Flushed with 132 bbl	epleted April 2, 1958, flowing 350 b.o.p.d. through the spleted April 2, 1958, flowing 350 b.o.p.d. through 5033. Shul-71 and 505-96. The initial coid tree are acid and 600 gal. Min. Reconditioning of the above perforations with 30,000 gal. Dowell 2 min. proce. 2200%, inj. rate 21.8 bbls. per minst 50 gal. W agent. Ran 18,100 gal. acid. dropped 16 o increase after dropping balls. Ran 5700 gal. acid. acid. dropped 16 s. 2000%, when mylar balls his perf. proces. From 8. 2000%, when mylar balls his perf. proces. From 8. 2011. Testing. Well workever completed on 7-22
PADY (ORIGINAL) R. M. BRADLEY	This well originally on riorations 5374-90', 5396-int consisted of 14,000 gal 11 started 7-1-59, acidise 5 acid, max. press. 3000%, us 120 gal. 7 agent plus 1 lan balls, press. 3000%, numbed 70 myles balls, press. 300%. Flushed with 132 bhlusping and flowing through 1	epleted April 2, 1958, flowing 350 b.o.p.d. through spleted April 2, 1958, flowing 350 b.o.p.d. through 5031, Shul-71 and 505-96. The initial cold bree are acid and 600 gal. Mia. Reconditioning of the above perforations with 30,000 gal. howell min. press. 22000, inj. rate 21.8 blis. per min. 50 gal. W agent. Han 18,100 gal. acid. dropped 16 o increase after dropping balls. Ran 5700 gal. ac s. 23000, when myler balls hit perf., press. raises. cil. Testing. Well workover completed on 7-23 3/h" choice at rate of 262 bbls. cil and no waster y
Durango, Colorado By COPY (SIGNED) B. M. BRADLEY	This well originally conforations 5174-90 , 536- nt consisted of 14,000 gal 11 started 7-1-59, acidise 1 acid, max. press. 3000, us 120 gal. Fagent plus 1 lan balls, press. 3000, n press 70 ryles balls, press 200, Flushed with 132 bhl sping and flowing through understand that this plan of work must receive	epleted April 2, 1958, flowing 350 b.o.p.d. through spleted April 2, 1958, flowing 350 b.o.p.d. through 5031, Shul-71 and 505-96. The initial cold bree are acid and 600 gal. Mia. Reconditioning of the above perforations with 30,000 gal. howell min. press. 22000, inj. rate 21.8 blis. per min. 50 gal. W agent. Han 18,100 gal. acid. dropped 16 o increase after dropping balls. Ran 5700 gal. ac s. 23000, when myler balls hit perf., press. raises. cil. Testing. Well workover completed on 7-23 3/h" choice at rate of 262 bbls. cil and no waster y
	This well originally conforations 174-90 536- In consisted of 14,000 gall started 1-59, acidise acid, max. press. 1000, as 120 gal. agent plus line balls, press. 1000, a press 70 ryles balls, press 70 ryles balls, press 70 ryles balls, press 70 ryles balls, press 1000, a press 1000,	epleted April 1956, flowing 350 b.o.p.d. through 5031. Shal-71 and 505-96. The initial coid bree reg. acid and 600 gal. Min. Reconditioning of the above perforations with 5000 gal. howell min. press. 2200, in rate 21.8 blis. per int. 50 gal. V agent. Han 18,100 gal. acid. dropped 16 increase after dropping balls. Ran 5700 gal. as 2000, when myler valls his perf. Press. Prints. 2200, when myler valls his perf. Press. Prints. 3/h" choice at rate of 262 bblis. call and no water you we approved in writing by the Geological Survey before operations may be commenced.
	ing positions 5376-90°, 5396- sisted of 11,000 gal- rted 7-1-59, addise, max. press. 3000', gal- 7 agent plus 1 11s, press. 3000', n 70 myles balls, press Plushed with 132 bth and flowing through d that this plan of work must receive The Carter Oil Compa	epicted April 2, 1950, flowing 350 b.o.p.d. through 500 gal. Mid. Reconsistioning of the above perforations with 10,000 gal. howell min. proces. 22006, in race 21.3 blis. per in 500 gal. Wagent. Ran 10,100 gal. acid. dropped o increase after dropping balls. Ran 5700 gal. acid. dropped 50 increase after dropping balls. Ran 5700 gal. acid. dropped 500 more mylor valls bit perf. proces. Friendly, Wells workever completed on 7-2 3/h" choice at rate of 262 bbls. cill and no water we approved in writing by the Geological Survey before operations may be commenced.

Title_

Form 9-331 (May 1963)	UN STA PARTMENT — TH	TES	SUBMIT IN TRIPI	-	Form approx Budget Bure	eau No. 42–R1424
A	GEOLOGICAL				14-20-602-	262
CHNIDDA	NOTICES AND R		NI WELLS	6.	IF INDIAN, ALLOTTE	
	for proposals to drill or to d 'APPLICATION FOR PERMI				AT .	
Use '	'APPLICATION FOR PERMI	T—" for such pr	oposals.)		Navajo	
OIL X GAS WELL				1 "	UNIT AGREEMENT N	***
2. NAME OF OPERATOR	OTHER			- <u>8.</u>	McElmo Cre	
The Superior Oi	1 Company		1 \ 1100			
3. ADDRESS OF OPERATOR	2 Company	***************************************	Harmon	9.	WELL NO.	
	', Cortez, Colora			· .	#P-23	
4. LOCATION OF WELL (Report I See also space 17 below.)	location clearly and in accord	lance with any	State requirements.*	10	. FIELD AND POOL,	OR WILDCAT
At surface	L, 2310' FEL			1	McElmo Cree	
	c. 17, T41S, R25E			111	SURVEY OR ARE	BLK. AND A
	County, Utah				Sec. 17, T4	1S R25E
14. PERMIT NO.	15. ELEVATIONS (S	Show whether DF.	RT. GR. etc.)		COUNTY OR PARIS	
II, I MINITE IIV,	101 -1111111111111111111111111111111111	4558			San Juan	Utah
	1					
16. Ch	neck Appropriate Box T	o Indicate N	ature of Notice, Repor	, or Othe	r Data	
NOTICE	OF INTENTION TO:			UBSEQUENT	REPORT OF:	
TEST WATER SHUT-OFF	PULL OR ALTER CASI	(NG	WATER SHUT-OFF		REPAIRING	WELL
FRACTURE TREAT	MULTIPLE COMPLETE	a	FRACTURE TREATMENT	2	ALTERING (CASING
SHOOT OR ACIDIZE	ABANDON*	-	SHOOTING OR ACIDIZE	4G	ABANDONME	:NT*
REPAIR WELL	CHANGE PLANS		(Other) (Note: Report	results of n	nultiple completion	on Well
	o Injection		Completion or I	Recompletion	Report and Log fo	orm.)
17. DESCRIBE PROPOSED OR COMPI	LETED OPERATIONS (Clearly st is directionally drilled, give	ate all pertinent subsurface locat	t details, and give pertinent ions and measured and true	vertical de	uding estimated da pths for all market	te of starting ares and zones per
nent to this work.) *						
			4			
Propose to com	vert to water inj	ection we	11 as follows:	-		
- zopobe co com	vere to water inj	cccion we	ii do ioliows.			
Set packer at 53	340' on plastic 1	ined 2-7/	8" tubing.	\$ E		
•	•		•	1. 5.		
Treat with 15,00	00 gallons 28% ac	id.		É		
Place on inject	Lon.					화 경기원회 :
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T and the second se	•					្រីដូផ្∰ំ −
<i>∰</i> ′						
			•	•		화 처리활별
APPROVED BY UTAH O						를 함께하다 !
CONSERVATION COM						
DATE: 12/20/65 by	Paul A Bucho	00				
DATES OF BYLLS	Land to the state of the state	\$-03°	•			
18. I hereby certify that the fo	regoing is true and correct					
10 10	Minimum	TITLE	Production Engine	er	DATE12/_	16/65
SIGNED D. D. I	ingman	TITLE	L COUCCION MIETIN	~~	DAID	
(This space for Federal or	State office use)					
APPROVED BY		TITLE			DATE	<u> </u>
CONDITIONS OF APPROV	AL, IF ANY:		,	•		\$ · 新聞養
73 75 7					the second secon	

DDK/nih

Form 9-331	į.		/ YMW /
(May 1963)	TED STATES ARTMENT OF THE IN	SUBMIT IN CATE* (Other instructions on reverse side)	Form approved. Budget Bureau No. 42-R142 5. LEASE DESIGNATION AND SERIAL NO
	GEOLOGICAL SURVE	Y	14-20-602-262 6. IF INDIAN, ALLOTTEE OR TRIBE NAM
	NOTICES AND REPOR proposals to drill or to deepen or PERMIT—" for	PTS ON WELLS plug back to a different reservoir. such proposals.)	Navaio
1. OIL GAS OF	TVAD.		7. UNIT AGREÉMENT NAME
2. NAME OF OPERATOR	Water Injection	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	McElmo Creek 8. FARM OR LEASE NAME
The Superior (Dil Co.	Sumble	
			9. WELL NO.
4. LOCATION OF WELL (REPORT location	GII Cortez Colorac ation clearly and in accordance with	iO th any State requirements.*	P-23 10. FIELD AND POOL, OR WILDCAT
	2070' FSL, 2310 FEL NW SE Sec 17, T41S,R2		McElmo Creek Unit 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
	San Juan County, Utah	1	Sec 17 T415 R25F
14. PERMIT NO.	15. ELEVATIONS (Show whe	ther DF, RT, GR, etc.)	Sec. 17, T415, R25E 12. COUNTY OR PARISH 13. STATE
	4558	(Β ¹ · · · · · · · · · · · · · · · · · · ·	San Juan Utah
16. Chec	k Appropriate Box To Indic	ate Nature of Notice, Report, or C	ther Data
NOTICE OF	INTENTION TO:	SUBSEQU	ENT REPORT OF:
TEST WATER SHUT-OFF	PULL OR ALTER CASING	WATER SHUT-OFF	REPAIRING WELL
FRACTURE TREAT	MULTIPLE COMPLETE	FRACTURE TREATMENT SHOOTING OR ACIDIZING	ALTERING CASING ABANDONMENT*
SHOOT OR ACIDIZE	ABANDON* CHANGE PLANS	(Other) Water Inic	ection X
(Other)		(Note: Report results Completion or Recompl	of multiple completion on Well etion Report and Log form.)
nent to this work.	eal Plastic Lined 2 ; 7	ertinent details, and give pertinent dates, se locations and measured and true vertica 7/8" tbg.	Ambibution (To the man the district of the color of the
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18. I hereby certify that the fores	oing is true and correct		A Things of a species of the contraction as a species of
18. I hereby certify that the foreg	aymen TITLE	_Production_Engineer	a legacionegas factores antichedra we decade a communication of the production of the second control of the se
	an TITLE	-Production Engineer	And the second of the second o
SIGNED D. D. Kingm	an TITLE		The color of a section of the color of the standard of the color of th

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Form 9-331 (May 1968)	LITED STA		Form approved. Budget Bureau No. 42-R1 5. LEASE DESIGNATION AND SERIAL
	GEOLOGICAL		14-20-602-262
1			6. IF INDIAN, ALLOTTEE OR TRIBE N.
	DRY NOTICES AND F form for proposals to drill or to 6 Use "APPLICATION FOR PERMI	REPORIS ON WELLS leepen or plug back to a different reservoir. T—" for such proposals.)	Navajo
I			7. UNIT AGREEMENT NAME
OIL GAS WELL	OTHER WATER INJ	ECTION /	McElmo Creek
2. NAME OF OPERATOR			8. FARM OR LEASE NAME
THE SUPERIO	R OIL COMPANY	1 (1) MARCO	
. ADDRESS OF OPERATOR		Poomo	9. WELL NO. P-23
P. O. DRAWE	R 'G', CORTEZ, COLOR	ADO	10. FIELD AND POOL, OR WILDCAT
See also space 17 belo	w.)	dance with any State requirements.*	McElmo Creek Unit
	70' FSL & 2310 FEL		11. SEC., T., R., M., OR BLK. AND
	SE Sec. 17, T41S, R	25E	SURVEY OR AREA
Sa	n Juan County, Utah		Sec. 17, T41S, R2
14. PERMIT NO.	15. ELEVATIONS (Show whether DF, RT, GR, etc.)	12. COUNTY OR PARISH 13. STATE
	4	558' KB	San Juan Utah
16.	Check Appropriate Box	To Indicate Nature of Notice, Report, or C	Other Data
	OTICE OF INTENTION TO:		UENT REPORT OF:
TEST WATER SHUT-01	PULL OR ALTER CAS	ING WATER SHUT-OFF	REPAIRING WELL
FRACTURE TREAT	MULTIPLE COMPLET		ALTERING CASING
SHOOT OR ACIDIZE	ABANDON*	SHORINING X	ABANDONMENT*
REPAIR WELL	CHANGE PLANS	(Other)	of multiple completion on Well
(Other)		Completion or Recomp	s of multiple completion on Well eletion Report and Log form.)
 proposed work. If nent to this work.) 	COMPLETED OPERATIONS (Clearly s well is directionally drilled, give	tate all pertinent details, and give pertinent dates, subsurface locations and measured and true vertic	, including estimated date of startin al depths for all markers and zones
Treated wel	1 with $15,000$ gallon	s 28% iron acid in three equal	. stages using 750
11			
gallon salt	plugs between stage	S.	
Returned we	11 to injection.	•	
RCCULIFCA WC	ii to injection.		
			^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^
	No.		
Ž,			
· 1			
			중화점통원 등의 확인목표 :
(**			출시 문화의 원회 공기 원칙
			· · · · · · · · · · · · · · · · · · ·
18. I hereby certify that	the foregoing is true and correct		
SIGNED	V. Mongman	TITLE Production Engineer	DATE 3/15/66
	Kingman ral or State office use)		
*	•	mymy 72	DATE
APPROVED BY CONDITIONS OF A	PPROVAL, IF ANY:	TITLE	

McELMO CREEK UNIT #P-23
NW SE Sec. 17, T41S, R25E
2070' FSL, 2310' FEL
San Juan County, UTAH

WATER INJECTION WELL

FIELD:

McELMO CREEK

KB: 4558'

DF: 4557'

GL: 4546!

TD: 5543'

PBTD: 5508'

TLD: 11.00

TOC: 4310' (temp)

SPUDDED:

2-9-58

COMPLETED: 4-2-58

INJECTION ZONES:

DESERT CREEK ZONES I, III, & III.

PERFS:

Zone I: 5374-90', 5396-5418'

(4 Jets/ft.)

Zone II:

5418-33', 5443-71¹

(4 Jets/ft.)

Zone III: 5485-961

(4 Jets/ft.)

CASING:

16" 53.1# SJ Armco SW to

201

10-3/4" 32.75# H-40 ST&C to

1346

5½" 14 & 15.5# J-55 Smls ST&C to

5541

TUBING:

2-7/8" 6.5# J-55 8R EUE lined w/TK-75, run to

53311

PACKERS:

5½" Baker Lok-Set lined w/TK-69, set w/20,000# set down, set

0 5327'.

1011

PMPG. EQUIP:

Injection Equipment

WELL HEAD:

6" Ser. 600 Cameron Type 'F'

3-30-58

Acidized 2 lower, then 2 upper perfs w/a total of 15,600 gals.

acid. Avg. final pressure 3500#.

7-1-59

Acidized w/48,000 gals. 15% acid. Final pressure 2800#.

12-23-65

Well placed on injection.

2-14-66

Treated all perfs w/15,000 gals. 28% Iron Acid in 3 equal

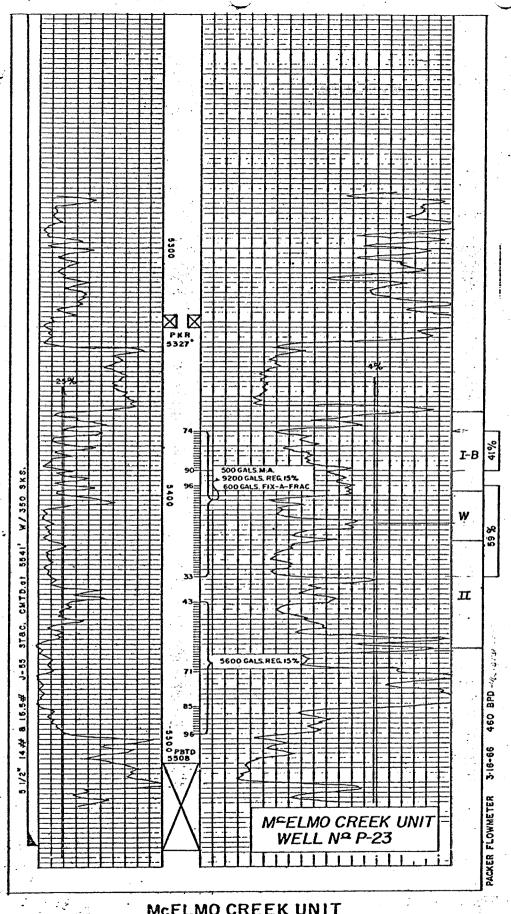
stages. Avg. pressure 6200#, ISIP 3750#, 15 mins. 3450#.

4-2-76

Replaced tubing string.

McELMO CREEK UNIT #P-23

DATE	March 8, 1958			
OIL BBL/DAY	360			
OIL GRAVITY	38.6			
GAS CU.FT/DAY	198,000 CF			
GAS-OIL RATIO CU/FT/BBL	550			
WATER BBL/DAY	0			
PUMPING/FLOWING	F			
CHOKE SIZE	1/2			
FLOW TUBING PRESSURE	40			



12-23-65: Ran Taylor Tube Seal
Plastic Lined 2 7/8" Tubing
Set Packer at 5327'
Converted to Injection Well.
3-15-66: Treated W/15,000 gals.
28% iron acid in 3 equal stages using
750 gal salt plugs between stages.

McELMO CREEK UNIT
THE SUPERIOR OIL CO. OPERATOR

NW SE. SEC.IT, T41S, R25E.
SAN JUAN COUNTY, UTAH.
ELEV. 4558 K.B. T.D. 5543

ATTACHMENT I

RULE I-5: Application for Approval of Class II Injection Wells

- (a) Well Data Sheets.
- (b) (1) Plat #1.
 - (2) Well Data Sheets.
 - (3) Well Data Sheets & Logs.
 - (4)
- i. The average intervening thickness is 4000' between the existing injection interval and the deepest fresh water sand.
- ii. Maximum Surface Pressure: 2800 psig. Maximum Rate: 4000 BWPD.

FORMATION	DEPTH	LITHOLOGY
Chinle DeChelly Organ Rock Hermosa Upper Ismay Lower Ismay Gothic Desert Creek Chimney Rock	1300' avg. 2350' avg. 2600' avg. 4400' avg. 5300' avg. 5370' avg. 5450' avg. 5460' avg. 5550' avg.	Shale Sandstone Shale Limestone Limestone Limestone Shale Limestone Shale

- (5)
 (i) A throttling valve is installed on the wellhead to control injection rates and pressures.
 - (ii) The source of injection water is Superior's production wells within the McElmo Creek Unit. The wells produce from the Ismay and Desert Creek formations with approximate depths of 5300' and 5460' respectively.
 - (iii) The analysis of injection water is as follows: (as parts per million).

PH: 6.5 Ca: 13770 ppm SO4: 25 ppm CL: 16700 ppm Mg: 11421 ppm H2S: 30 ppm Fe: 3 ppm HCO3: 109.8 ppm Ba: -

CaCO3: 18470 ppm CO3: - Specific Gravity: 1.0553

- (3) Cont.
 - (iv) The injection zones are the Ismay and Desert Creek formations. Both zones are carbonate formations consisting of limestone, anhydrite and dolomite. The formations extend throughout the Paradox Basin and are underlain by the Chimney Rock Shale and are overlain by the Hermosa Limestone.
 - (v) Fresh water zones (Morrison, Bluff, Entrada) range from 0 to 1300' with Entrada being the deepest and somewhat saline.
 - (vi) The analysis of formation water (Desert Creek) is as follows: (as parts per million).

 PH: 6.6 Ca: 17410 ppm SO4: 33 ppm

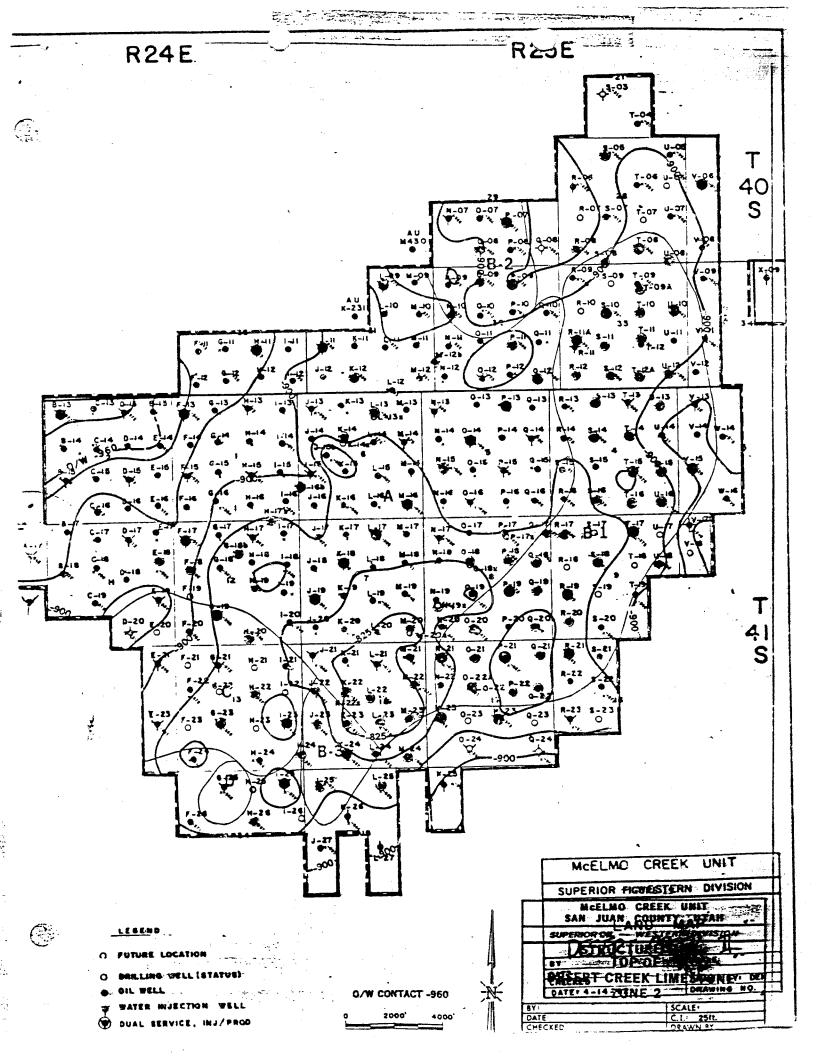
 CL: 34800 ppm Mg: 11518 ppm H2S: 10 ppm

 Fe: 1.5 ppm HCO3: 48.8 ppm Ba:
 CaCO3: 22150 ppm CO3: Specific

 Gravity: 1.0902
- (6) To assure that injection is confined to intervals intended to receive the disposed water, wireline diagnostic surveys are run periodically to determine whether any escapement is taking place. If such information is discovered, the disposal well will be shut-in until proper measure can be taken. Casing pressure readings are made regularly to verify that no tubing or packer leaks have developed. If such leaks develop, the well will be shut-in until proper repairs can be made.
- (7) N/A.
- (8) The Division will be notified of the date and time to monitor the mechanical integrity test.
- (9) N/A.

Ž.,

(10) N/A.



CHECKLIST FOR INJECTION WELL APPLICATION AND FILE REVIEW

V-//-	11 No. M. Elmo Creed Unit	23
ounty: San fran T 4/5 R 25E	Sec. 17 API# 43-037-163	
ew Well Conversion Disposal Well	Enhanced Recovery Well X	
	YES NO	÷
UIC Forms Completed		
Plat including Surface Owners. Leas and wells of available record	seholders,	
Schematic Diagram		
Fracture Information		
Pressure and Rate Control	- Characteristic	
Adequate Geologic Information		
Fluid Source	Desert buk Som	y
Analysis of Injection Fluid	Yes _ No _ TDS 60,00	00
Analysis of Water in Formation to be injected into	Ves No' TDS 70,0	00
Known USDW in area	Mary - Chunce Depth 1300	
Number of wells in area of review	10 Prod. 4 P&A 7	
	Water Inj. 3	•
Aquifer Exemption	Yes NA	
# Mechanical Integrity Test	Yes No	
.	Date 4-22-84 Type Water France	r be
Comments:		
lan2		
Reviewed by:		

Form 3160-5 (November 1983) (Formerly 9-331) DEPARTMENT OF THE INTERIOR Verse side)	Budget Bureau No. 1004-0135 Expires August 31, 1985 5. LEASE DESIGNATION AND RESIAL NO.
BUREAU OF LAND MANAGEMENT	14-20-603-263
SUNDRY NOTICES AND REPORTS ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)	NAVAJO
OIL GAB INJECTION WELL	7. UNIT AGREEMENT NAME MCELMO CREEK UNIT
2. NAME OF OPERATOR	8. FARM OR LEASE NAME
SUPERIOR OIL COMPANY 3. ADDRESS OF OPERATOR	9. WELL NO.
P. O. DRAWER 'G', CORTEZ, COLORADO 81321	#P-23
 LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 	10. FIELD AND POOL, OR WILDCAT GREATER ANETH
2070' FSL, 2310' FEL, SECTION 17	11. SBC., T., E., M., OR BLK. AND BURYEY OR ARBA
20,0 102, 2020 122, 020,000 2	SEC. 17, T41S, R25E, SL
14. PERMIT NO. 15. ELEVATIONS (Show whether DF, RT, GR, etc.) DF: 4557	12. COUNTY OR PARISH 13. STATE SAN JUAN UTAH
16. Check Appropriate Box To Indicate Nature of Notice, Report, or O	ther Data
NOTICE OF INTENTION TO:	ENT REPORT OF:
TEST WATER SHUT-OFF PULL OR ALTER CASING WATER SHUT-OFF	REPAIRING WELL
FRACTURE TREAT MULTIPLE COMPLETE SHOOT OR ACIDIZE ABANDON ⁴ SHOOTING OR ACIDIZING	ALTEBING CASING ABANDONMENT®
REPAIR WELL CHANGE PLANS (Other)	of multiple completes on Wall
(Other)	of multiple completion on Well etion Report and Log form.)
proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical nent to this work.) *	depths for all markers and zones perti-
1-18-85: MIRU. Bled well to pit. POH & LD 2-7/8" injection string scraper, & 2-7/8" workstring. 1-19-85: Tagged PBTD at 5504'. POH w/ tbg, bit & scraper. RIH w/ 1-21-85: Selectively acidized Desert Creek perfs (5374'5496' 0/A) v 1-22-85: Swabbed. 1-23/24-85: POH w/ tbg, pkr & RBP. RIH w/ CO2 injection equipment. Set P.C. permanent pkr at 5343'. ND BOP's & NU S.S. well1 1-25-85: Placed well back on water injection.	tbg, RBP & pkr. w/ 7000 gals 28% HCL.
2 20 000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
·	
	•
PECEIVE	ED .
FEB 1 1 198	5
DIVISIUN UF C	DIL
18. I hereby certify that the foregoing is true and correct GAS & MININ	G
SIGNED 1991 1991 1991 1991 1991 1991 1991 19	
APPROVED BY CLOSS TOURS TITLE UIC MANY! CONDITIONS OF APPROVAL, IF ANY:	DATE 2/19/53

STATE OF UTAH

SUBM TRIPLICATES (Others structions on reverse side)

D	EPARTMENT OF NATU			5. LEASE DESIGNATION AND SERIAL M
	DIVISION OF OIL, GA	S, AND MIN	ING.	14-20-603-263
CLIVIDOV	/ NOTICES AND D	FRORTS O	.	6. IF INDIAN, ALLOTTED OR TRIBE NA
SUNUK 1	NOTICES AND R	EPORIS O	N WELLS	2 / Paus Inc.
Use	for proposals to drill or to de "APPLICATION FOR PERMIT	I—" for such pro-	possis.)	T. UNIT AGREMENT NAME
OIL UAS D	OTERS INJECTION	WELL	•	MCELMO CREEK
NAME OF OPERATOR			JAN 1 4-	1986 S. FARM OR LEASE HAMB
MOBIL OII	L CORP AS AGENT	OF SUPER	i 2	***
P. O. DRI	AWER 'G', CORTEZ	z, co 813	21 DIVISION (OF O(\$ - 235 10.
LOCATION OF WELL (Report	location clearly and in accord		GAS & MI	NING GREATER AND POOL OF WILDCAT
See also space 17 below.) At surface	•		•	
2070' FSI	L, 2310' FEL			11. SEC., T., E., M., OR BLK. AND SURVEY OR AREA
				Sec 17,T41S,R25E
PERMIT NO.	18. SLEVATIONS (how whether or,	RT, GR. etq.)	12. COUNTY OR PARISH 18. STATE
43-137-163	070 DF: 4	¥557′		SAN IIIAN IITAH
	heck Appropriate Box T	o Indicate No	sture of Notice, Report,	or Other Data
SITOK	B OF INTENTION TO:	1	at	UBASQUENT ASPORT OF:
TEST WATER SEUT-OFF	PULL OR ALTER CASI	MG	WATER SHUT-OFF	REPAIRING WELL
FRACTURE TREAT	MULTIPLE COMPLETE	:	PRACTURE TREATMENT	ALTERING CASING
SHOOT OR ACIDIZE	ABANDON*		SHOUTING OR ACIDIZING	CO2 TN. FCTTON
REPAIR WELL	CHANGE PLANS	 	(Other)	results of multiple completion on Well recompletion Report and Log form.)
(Other)			d . It	dates, including estimated date of starting vertical depths for all markers and zones pe
Carbon D	ioxide_injection	n was ini	tiated in this	well on Feb 28, '85
••				
		•		
		,		
		•		
\nearrow				
	γ_{1}			
. I hereby certify that the	Appeoints in true and correct			10.1
I hereby certify that the	Apreguing is true and correct	TITLE	r Stoff Op Eng	P DATE 1.9.86
SIGNED TO CO			r Stoff Op Eng	P DATE 1986
(This space for Federal			r Stoff Op Eng	DATE 1986
SIGNED TO CO	or State office use)	TITLE	r Stoff Op Eng	DATE

Mobil Oil Corporation

P.O. BOX 5444 DENVER, COLORADO 80217-5444

May 14, 1986

Utah Board of Oil, Gas and Mining 355 West North Temple 3 Triad Center, Suite 350 Salt Lake City, Utah 84180-1203

Attn: R. J. Firth

Associate Director



DIVISION OF OIL, GAS & MINING

SUPERIOR OIL COMPANY MERGER

Dear Mr. Firth:

On September 20, 1984, The Superior Oil Company (Superior) became a wholly owned subsidiary of Mobil Corporation. Since January 1, 1985, Mobil Oil Corporation (MOC), another wholly owned subsidiary of Mobil Corporation, has acted as agent for Superior and has operated the Superior-owned properties.

On April 24, 1986, Superior was merged with <u>Mobil Exploration and Producing North America Inc. (MEPNA)</u>, which is also a wholly cwned subsidiary of Mobil Corporation. MEPNA is the surviving company of the merger.

This letter is to advise you that all properties held in the name of Superior will now be held in the name of MEPNA; and that these properties will continue to be operated by MOC as agent for MEPNA.

Attached is a listing of all wells and a separate listing of injection-disposal wells, Designation of Agent and an organization chart illustrating the relationships of the various companies. If you have any questions or require additional documentation of this merger, please feel free to contact me at the above address or (303) 298-2577.

Very truly yours,

CNE/rd CNE8661

R. D. Baker Environmental Regulatory Manager

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WESTERN REGULATORY WELL COMPLIANCE DATA FILE (PAGE 1 OF 2) FOR THE CORTEZ SUPERVISOR AREA FOR THE GREATER ANETH FIELD 05/13/86

							S				
PROPERTY NAME	WELL NAME	COUNTY	STATE	SEC TUNSH	P RNG	WELL TYPE	Ä	API NUMBER	FEDERAL LEASE NUMBER	STATE NUMBER	UNIT NUMBER
MC ELHO CREEK	N-11	YEN JUAN	UT	NW SE 32-4	0 S- 25E	LKI	OP	43-037-15965	14-20-603-372		96-004190
	N-13 V	MAUL MAZ	UT	NU NU 05-4	15-25E	LWI	0P	43-037-15966	14-20-603-372		96-004190
	N-15~	NAUL NAZ	ÜΤ	SW NW 05-4	1S-25E	INJ	ΩP	43-037-05671	14-20-603-372		96-004190
	N-17~	MAUL HAZ	UT	NW NW €8-4	1S-25E	LWI	0P	43-037-05597	14-20-603-263		96-004190
	N-19~	MAUL MAZ	UT	NU SU 08-4	13-25E	LKI	08	43-037-05540	14-20-603-263		96-004190
	N-21 V	MAUL MAZ	UT	XW XW 17-4	13-25E	INJ	GF'	43-037-05492	14-20-693-263		96-604190
	N-23 🗸	MAUL MAZ	UT	NW SW 17-4	1S-25E	INJ	02	43-037-16364	14-20-603-263	-	96-004190
	0-12	SAN JUAN	UT	SE SW 32-4	0S-25E	INJ	OP	43-037-16371	14-20-603-372		96-004190
	0-14 🗸	SAN JUAN	UT	SE NW 05-4	13-25E	LMI	OP	43-937-16365	14-20-693-372		76-004199
	0-16	SAN JUAN	UT	SE SW 85-4	13-25E	LWI	OP	43-037-15969	14-20-603-372		96-664196
	0-18 🗸	SAN JUAN	TU	SE NW 08-4	1S-25E	LNI	OP	43-037-05585	14-20-603-263		96-004190
	P-07 🗸	MAUL MAZ	UT	NW SE 29-4	03-25E	INJ	OP	43-037-05828	I-149-IND-8839-A		96-604190
	P-09 🗸	SAN JUAN	UT	NW NE 32-4	0S-25E	IHJ	ŊР	43-037-16367	14-20-603-372		96-094190
		SAN JUAN	UT	NW SE J2-4	05-25E	INJ	OP	43-037-15971	14-20-603-372		96-004190
	P-13 🗸	SAN JUAN	UT	NU NE 85-4	13-25E	IHJ	ΟP	43-037-16368	14-20-603-372		76-004190
	P-15-	SAN JUAN	UT	NU SE 05-4	13-25E	INJ	GP	43-637-16340	14-20-603-372		96-004190
		SAN JUAN	UT	NA NE 08-	415-25E	LKI	OP	43-037-15976	14-20-603-263		76-004170
		MAUL MAZ	UT	NW SE 08-4	1S-25E	LMI	OP	43-037-05555	14-20-603-263		96-004190
	P-21√	SAN JUAN	UT	NW NE 17-4	1S-25E	LWI	02	43-937-05487	14-20-603-263		96-004190
	. P-23√	SAN JUAN	UT	NW SE 17-4	1S-25E	INJ	OP'	43-037-1,6370	14-20-603-263		96-004196
	Q-12	SAN JUAN	UT	SE SE 32-4	0S-25E	LKI	OP	43-037-05720	14-20-603-372		96-004199
	Q-14 V	SAN JUAN	UT	SE NE 05-4	1S-25E	INJ	0P	43-037-15974	14-20-603-372		96-004190
	Q-16		UT	SE SE 05-4	1S-25E	LkI	0P	43-037-15975	14-20-693-372		96-004190
	R-117	SAN JUAN	UT	NW SW 33-4	0S-25E	INJ_	SI	. 43-037-05741	14-29-603-2057		96-004190
		SAN JUAN	UT	NU SW 33-4	9S-25E	INJ	٥P	43-037-30179	14-20-603-2057		96-004199
		HAUL MAZ	UT	원 원의 94-4	1S-25E	INJ	0P	43-037-05709	14-20-603-2057		96-004190
		SAN JUAN	UT	NU NU 09-4	15-25E	LMI	OP	43-037-05402	14-20-603-359		96-004190
	4	SAN JUAN	UT	NW SW 09-4	HS-25E	INJ	GF	43-037-65554	14-20-603-359		96-004190
		SAN JUAN	IJΤ	NU-NU 16-4	MS-25E	LKI	02	43-037-16374	14-20-603-359		96-094190
•	R-23 V	SAN JUAN	ŮΤ	NV SW-16-4	45-252	INJ	ΟP	43-037-15977	14-20-603-357		76-004190

. And the second second

Form 3160-5 November 1983) Formerly 9-331) DEPARTMENT OF TH	ATES HE INTERIC	/ OAL Amadeus	Expires Augus 5. LEASE DESIGNATION	st 31, 1985
BUREAU OF LAND M			14-20-603-	263
SUNDRY NOTICES AND F	REPORTS O	N WELLS	6. IF INDIAN, ALLOTT	EE OR TRIBE NAME
(Do not use this form for proposals to drill or to the "APPLICATION FOR PERMI	deepen or plug bac IT—" for such pro	ck to a different reservoir. posais.)	OLAVAN	
1.			7, UNIT AGREEMENT P	IANE
OIL GAS T CD2/HATE	R INJECTI	ON WELL	MCELMO CRE	EK
2. NAME OF OPERATOR			8. FARM OR LEASE NA	ME
MOBIL OIL CORP AS AGENT	FOR MEPN	A .	-	
3. ADDRESS OF OPERATOR	1011	SHELLING PL	9. WELL NO.	
P. O. DRAWER 'G', CORTE	z, colati		P-23	444
4. LOCATION OF WELL (Report location clearly and in accor	dance with	ate requirements.*	10. FIELD AND POOL,	OR WILDCAT
See also space 17 below.) At surface	44	JUN 16 1986	GREATER AN	IETH
		0011 10 1000	11. SEC., T., R., M., OR SURVEY OR ARE	BLK. AND
2070' FSL, 2310' FEL		DIVISION OF		-
	0	IL. GAS & MINING	Sec 17, T41	.S,R25E
14. PERMIT NO. 15. ELEVATIONS ((Show whether DF, I	RT, GR, etc.)	12. COUNTY OR PARIS	H 18. STATE
DF:	45571		NAUL NAS	UTAH
16. Check Appropriate Box	To Indicate No	iture of Notice, Report, o	r Other Data	
NOTICE OF INTENTION TO:	1	SUBE	BEQUENT REPORT OF:	بدير فالماني الم
TEST WATER SHIT-OFF PULL OR ALTER CAS		WATER SHUT-OFF	REPAIRING	WELL
1551 42154 54154		FRACTURE TREATMENT	ALTERING	
		SHOOTING OR ACIDIZING	ABANDONM	
REPAIR WELL CHANGE PLANS		(Other)		
(Other) REPAIR CASING LEAKS	XX	(NOTE: Report rest	ults of multiple completion mapletion Report and Log f	on Well
17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly s proposed work. If well is directionally drilled, give nent to this work.) *	tate all pertinent subsurface location	details, and give pertinent da ons and measured and true ver	tes, including estimated di tical depths for all marke	ite of starting any rs and sones perti-
The subject well was retbg/pkr leak. After cleasing the on/off too the pkr. The tbg was Efforts to fish the tuformation material leaexists. Subsequent teand 3750' and below 51	losing th l, the tu cut off t bing have ding to t sting ind 90'.	e downhole shut bing became stu wo Jts above the been unsuccess he conclusion to icates casing l	, off valve and ck four feet et and puriful due to en that a casing eaks between	d re- above alled. atry of leak 3719'
We plan to squeeae ceminjection.	en t bo th	leaks and retur	n the well to) .
NOTE: Verbal approval Mr. Steve Mason on 6/1	to proce 3/86.	ede with this wo	ork was gr ante	ed by
18. I hereby certify that the for going is true and correct				
SIGNED SIGNED		r Staff Op Engr	DATE 6/	/13/86
(This space for Federal or State office use)		-		UE OTATE
Allin space for a cuctar of place omice and		API	PROVED BY T	UE DIAIE
APPROVED BY	TITLE		F UTAM DIVIS	IUN UF
CONDITIONS OF APPROVAL, IF ANY:		0	IL, GAS, AND	MINING
eta.		DA	TE: 6/2-5/	84
**	·	an Payama Sida BY		

ு்ள் ⊋60–5 UN	IT STATES	SUBMIT IN TRIPLIC TO	Budget Bureau No. 1004-0135 Expires August 31, 1985
	NT-F THE INTERI	OR (Other instructions or verse side)	5. LEASE DESIGNATION AND SERIAL NO.
	F LAND MANAGEMEN		14-20-603-263
			6. IF INDIAN, ALLOTTEE OR TRIBE NAME
	S AND REPORTS (
(Do not use this form for proposals Use "APPLICATIO	N FOR PERMIT—" for such p	oposais.)	NAVAJO
1.			7. UNIT AGREEMENT NAME
OIL GAS OTHER C	2/WATER INJECT	ON WELL	MCELMO CREEK
2. NAME OF OPERATOR	3		8. PARM OR LEASE NAME
MOBIL OIL CORPORA	TION		
3. ADDRESS OF OPERATOR			9. WELL NO.
P. O. DRAWER 'G',			P-23 *****
 LOCATION OF WELL (Report location clear) See also space 17 below.) 	y and in accordance with the		10. FIELD AND POOL, OR WILDCAT
At surface		COGO O CIT	GREATER ANETH
			11. SEC., T., R., M., OR BLK. AND SURVEY OR ARRA
2070' FSL, 2310'	FEL UU	I JUL 07 1986 🚟	
			Sec 17, T41S, R25E
14. PERMIT NO.	5. ELEVATIONS (Show whether DF,	TOTVISION OF	
	DF: 4557'	OIL, GAS & MINING	ISAN JUAN 3 UTAH
16. Check Appro	priate Box To Indicate N	ature of Notice, Report, or C	Other Data
NOTICE OF INTERISON	*0 :	SUBSEC	JENT REPORT OF:
	OR ALTER CASING	WATER SHUT-OFF	REPAIRING WELL
	TPLE COMPLETE	PRACTURE TREATMENT	ABANDONMENT
SROOT OR ACIDIZE	GE PLANS	SHOOTING OR ACIDIZING (Other) REPAIR C	
	GE PLANS	(Nors: Report results	of multiple completion on Well
(Other) 17. DESCRIBE PROPOSED OR COMPLETED OPERATION OF THE PROPOSED OF THE P	ove (Clearly state all partinent		etion Report and Log form.)
proposed work. If well is directionally next to this work.)	drilled, give subsurface locat	ions and measured and true vertice	al depths for all markers and sones perti-
			产生的基本产品的 。2013年,
06/05/86 MIRU.	Bled down casin	g. Bled down tho	
	ing on brine wo		:
	ing on brine wo		
06/08/86 SD for			
06/09/86 Bled do	wn casing. Ble	d down tbg. Clos	ed downhole shut- 🚁
off val	ve. Released o	n/off tool. Work	ed tbg 4' up hole
and tbg	stuck.		
06/10/86 Ran fre	e point to 5320	', obstruction in	tbg. Ran chem
		302'. PU fishing	
		ight spot @ 5134	
		and tbg. Attemp	
		ls. POOH. RIH t	o fill at 5106'
	c. PU 20 stds		
		POOH. RIH w/ pkr	
	3719' and 37 50	'. RIH to 5196'	and pulled 25
The state of the s			The state of the s
		nd pkr. Set BP @	
		etween 3719' and	3940'A POOH W/
ptyr and			TANK TO SEE THE SECOND SECOND
		<u>ued on attached p</u>	age) :
8. I hereby certify that the foregoing is true			
SIGNED	<u> </u>	r Staff Op Engr	
This space for Federal or State office us	e)		
APPROVED BY	TITLE		DATE
CONDITIONS OF APPROVAL, IF ANY:	化邻角性系统 化滤纸 经净额 医二氏		

*See Instructions on Reverse Side

and with the same of the same

McElmo Creek Unit P-23

06/14-15/86 SD i weekend.
06/16/86 RU to Log. Ran CCL and pipe inspection log. RIH w/
injection string. Circ in inhibited FW.
06/17/86 LD injection string. RDMO. Evaluating for repair.

UTAH DIVISION OF OIL, GAS AND MINING CASING-BRADENHEAD TEST

OPERATOR:	1EPN	A		· ·		
FIELD: Greater Aneth LEASE: MCElmo Creek						
WELL # P - 2	23				TOWNSHIP 4/S RANGE	25 E
STATE FED. F	EE DEPT P8TD	н <u> 554°.</u> 5508°	3 TYP	PE WELL IA	MAX. INJ. PRESS.	2800 ps
TEST DATE 9	10/86	· · ·		~		
CASING STRING	SIZE	SET AT	CMT	PRESSURE READINGS	REMARKS	FUTURE
SURFACE	16"	201	~		Shut-in due to	
INTERMEDIATE	103/4	1346			previous test	
PRODUCTION		<u>8541</u>	•		of 110# or	
					bradenhead	1:
		<u>5331</u>				
Boke	Lokes	et Phic	at 5			
CASING STRING SURFACE	SIZE	SET AT	CMT	PRESSURE READINGS	REMARKS	FUTURE
INTERMEDIATE						
PRODUCTION			-			
TUBING		-				
CASING STRING	SIZE	SET AT	CNT	PRESSURE	DEMARKS	TW FIRM ID TO
SURFACE	31ZE	SEI AI	CMT	READINGS	REMARKS	FUTURE
INTERMEDIATE						
PRODUCTION						
TUBING						

	Form apploved 87 copied to
Form. 3160-5 UNIT STATES SUBMIT IN TRIPLI	Budget Bureau No. 1004-0135
(November 1983) (Formerly 9-331) DEPARTMEN F THE INTERIOR (Other Instructions verse alde)	Expires August 31, 1985 5. LEASE DESIGNATION AND SERIAL NO.
BUREAU OF LAND MANAGEMENT	14-20-603-263
	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
SUNDRY NOTICES AND REPORTS ON WELLS	
(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)	Navaio
1.	7. UNIT AGREEMENT MANE
WELL GAS WELL OTHER CO2 Injector	McElmo Creak
2. NAME OF OPERATOR	8. PARM OR LEASE HAME
Mobil Oil Corporation	-
3. ADDRESS OF OPERATOR	9. WBLL NO.
P.D. Drawer G. Cortez Lo 81321	P-23
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.º See also space 17 below.)	10. FIELD AND POOL, OR WILDCAT
At surface	Greater Uneth
	11. SEC., T., B., M., OR BLK. AND SURVEY OR AREA
2 1 1 2010 5	0
2070' FSL. 2310' FEL	Jec 19, T415, R2SE, SLM
14. PERMIT NO. 15. ELEVATIONS (Show whether DF, RT, CR, etc.)	12. COUNTY OR PARISH 18. STATE
DF: 4557	Jan Lean Utah
16. Check Appropriate Box To Indicate Nature of Notice, Report, or C	Other Data
NOTICE OF INTENTION TO.	ENT REPORT OF:
TEST WATER SHUT-OFF PULL OR ALTER CASING WATER SHUT-OFF	REPAIRING WELL
PRACTURE TREAT MULTIPLE COMPLETE PRACTURE TREATMENT	ALTERING CASING
SHOOT OR ACIDIZE ABANDON* SHOOTING OR ACIDIZING	ABANDONMENT*
REPAIR WELL CHANGE PLANS (Other) (NOTE: Report results	of multiple completion on Well
(Other) Completion or Recompl	etion Report and Log form.)
17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical	including estimated date of starting any il depths for all markers and zones perti-
nent to this work.) *	
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OIL, GAS, AND MINING SEP	14 1987
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BY:	er en er
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18. I hereby certify that the energying is tode and correct	e 1 cn
SIGNED TITLE State Up Engr	DATE 9.4.87
(This space for Federal or State office use)	
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APPROVED BY TITLE CONDITIONS OF APPROVAL, IF ANY:	DATE
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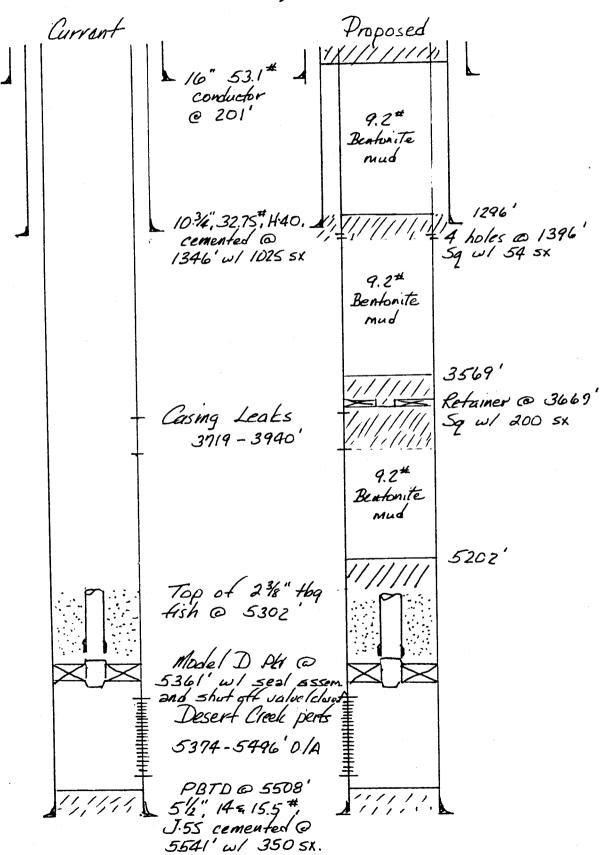
*See Instructions on Reverse Side

MCELMO CREEK UNIT P-23 GREATER ANEIH FIELD SAN JUAN COUNTY, UTAH

PLUG AND ABANDONMENT PROCEDURE

- MIRU. Bleed down casing. Install and test BOP'S.
- RIH w/ 4-7/8" bit and 5-1/2" casing scraper to 3700'.
 POOH. RIH W/ DET circ out fill to top of fish @ 5302'.
- 3. Equalize 100 foot cement plug (13.7 cu ft slurry) @ 5302'.
 - NOTE: Notify BLM 24 hrs prior to beginning plugging operations.
- 4. Circ in 30.0 bbls 9.2# bentonite mud on top of cement.
- 5. RIH w/ cement retainer and set @ 3669'. Stab into retainer and squeeze leaks 3719-3940' w/ 200 sx Class B cement. Pull out of retainer and equalize 100' cement plug on top of retainer.
- 6. Circ in 51.7 bbls 9.2# bentonite mud on top of cement. FOOH.
- 7. Shoot 4 holes @ 1396'. RIH open-ended and spot 54 cu ft cement slurry @ 1396'. POO cement and displace top of cement to 1296'.
- 8. Fill hole w/ 9.2# bentonite mud (26.2 bbls).
- 9. Place 100' neat cement plug at surface inside and outside 5--1/2" casing. RDMO.
- 10. Cut off wellhead and weld on dry hole marker. Restore location as per BLM requirements.

McElmo Creek Unit P-23 Greater Aneth Field San Juan Lounty, Utah



UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT		Lease Designation & Serial No. 14-20-603-263 If Indian, Allottee or	Tribe Mame
SUNDRY NOTICES AND REPORTS ON WELLS		NAVAJO	030745
1. Oil Well /_/ Gas Well /_/ Other: Injection	Application of the	Unit Agreement Name McElmo Creek	WW
2. Name of Operator N 7370 MOBIL DIL CORPORATION 7370	B 29 1988	Farm or Lease Name - Well No. 43-03	7-16370
P. O. DRAWER 6, CORTEZ, CO. 81321		P-23	
7. COLOCION DI WEIL	IIVAIÚN OF 10. GAS & MINING	Field and Pool, or Wile	dcat
2070' FSL, 2310' FEL		Greater Aneth Sec. T,R,M or BLK and Survey or Area	10
14. Permit No. 15. Elevations (DF, RT, GR DR: 4557'	12.	Section 17, T41S,R25E County, Parish 13. Jan Juan	State Utah
Repair Well /_/ Change Plans /	Subsequen _/ Water Shut-off _/ Fracture Treatm _/ Shooting/Acidiz _/ (Other) _/ (NOTE: Report	t Report of: /_/ Repairing Wellent /_/ Altering Casining /_/ Abandonment #	ng /_/ /XX/ letion on
17. Describe Proposed or Completed Operations (Cleincluding estimated date of starting any proposed we locations and measured and true vertical depths for	ork. If well is direc	tionally drilled, give s	ubsurface
2-02-88 MIRU. Bled well dwn. ND tree. NU BOPs. work string.	PU and RIH w/ 5-1/2"	casing scraper and 92 jt	s 2-7/8′
2-03-88 SD for day. 2-04-88 Bled well dwn. Fin RIH to 3700'. PDOH. PODH w/ 30 stds.	RIH open ended to fill	€ 4316'. Circ out fill	to 5223.
2-05-88 Fin POOH. RIH w/ retainer and set @ 4792' w/ sandline drill. Made two runs with dri 2-06-88 SD for weekend.	• •		
2-07-88 SD for weekend.			
2-08-88 Perf'd 4 shots per foot 4728-29' and 1396'	. RIH and set retaine	r € 4637'. Circ around (Continued on Atta	
18. I hereby certify that the temperating is true and	d correct		
Signed: 0. C. Collins	_ Title: <u>Sr Staff Op</u>	Engr Date: 02-26-88	
D. C. COLLINS		CEPTED BY THE	
(This space for Federal or State office use) APPROVED BY		F UTAH DIVISIO IL, GAS, AND MI	
CONDITIONS OF APPROVAL, IF ANY:	DATI	15-5-60)

POOH w/ 30 stds. 2-05-88 Fin POOH. RIH w/ retainer and set @ 4792'. Unable to w/ sandline drill. Made two runs with drill and went t 2-06-88 SD for weekend. 2-07-88 SD for weekend. 2-08-88 Perf'd 4 shots per foot 4728-29' and 1396'. RIH and se 18. I hereby pertilly that The tapegaing is true and correct Signed: D. C. Collins (This space for Federal or State office use) APPROVED BY CONDITIONS OF APPROVAL, IF ANY: Title 18 U.S.C. Section 1001, makes it a crime for any person knowlingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

McElmo Creek Unit P-23 Plug and Abandonment

- 2-08-88 closed csg valve and pumped 2 bbls cement below retainer. Pulled out of retainer and equalized 100' (cont'd) cement plug on top of retainer. Circ hole full of mud from 3940'. PODH.
- 2-09-88 RIH and set retainer @ 3600'. Circ thru retainer behind pipe. POOH. RIH w/ Baker R-3 pkr and tested csg for leaks. Found bad pipe 3600' to 2658'. POOH w/ pkr. RIH w/ open ended tbg and equalized cement plug from 3562' to 2700'. POOH.
- 2-10-88 Set retainer @ 2533' and squeezed below retainer w/ 92 bbls cement. Equalized 100' cement plug on top of retainer. Circ hole full of mud 2433' to 1396'. Equalized 100' cement plug from 1396' to 1296'. Filled hole w/ mud from 1296' to 100'. Equalized 100' surface plug. Pumped 1.5 bbls cement into bradenhead. RDMO rig. Cut off wellhead and welded on dry hole marker.
- NOTE: Changes from the original approved procedure were discussed w/ and approved by Mr. John Keller on 2-5-88 and w/ Mr. Earl Beecher on 2-8-88.